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(21) International Application Number: PCT/US98/15835 (22) International Filing Date: 31 July 1998 (31.07.98) (30) Priority Data: 60/054,563 1 August 1997 (01.08.97) US (71) Applicant (for all designated States except US): MARTEK BIOSCIENCES CORPORATION [US/US]; 6480 Dobbin Road, Columbia, MD 21045 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GLADUE, Raymond, M. [US/US]; 655 Brookgreen Lane, Lexington, KY 40509 (US). BEHRENS, Paul, W. [US/US]; 4725 Widdup Court, Ellicott City, MD 21043-6529 (US). (74) Agents: POSORSKE, Laurence, H. et al.; Baker & Botts, L.L.P., The Warner, 1299 Pennsylvania Avenue, N.W., Washington, DC 20004 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: DHA-CONTAINING NUTRITIONAL COMPOSITIONS AND METHODS FOR THEIR PRODUCTION		
(57) Abstract <p>This invention provides a particulate material suitable for use as a nutritional supplement, particularly as an aquaculture feed. The particulate material has a high proportion of DHA residues in the lipid fraction, which may be up to 35% of the material, or even more. Preferably, the material has a mean particle size of from about 5 microns to about 10 microns. This invention also provides a method for preparing a particulate material suitable for use as an aquaculture feed from microbial biomass, preferably from algal cells having a high content of DHA residues, by obtaining a lipid fraction from the biomass, preferably by solvent extraction of broken cells, followed by separating a fraction containing phospholipids and proteins from the lipid fraction, and removing water from the protein/phospholipid fraction to form a low moisture particulate, preferably by spray-drying the protein/phospholipid fraction.</p>		